edge10

Advanced Display Systems

LCD Monitor User Manual

Model: H17XX (H170 /T171/H171)

www.edge10.com

The display comes with a three years on site warranty.
To activate your warranty please register your display at
www.edge10.com/support

Content

1.0 Instructions for Federal Communications Commission (FCC) Compliance

This device has passed the tests stipulated by Article 15 of FCC Compliance and conforms to the limitations and provisions for Class-B digital equipment. The restrictions are formulated to prevent the harmful interference with radio frequencies produced by or used by household appliances. This unit will emit electromagnetic waves during operation and therefore, it may interfere with the radio-frequency signal if it is not configured and operated as directed in the user manual. It is not guaranteed that this device will not cause interference with specific equipment--in particular when it is being powered on or off. In case this device interferes with TV sets or wireless networking equipment, the user may prevent the interference by using one or several of the methods stated below:

——Relocate the reception antenna of the equipment

——Increase the distance between this device and the equipment

——Connect the power plug of this device and that of the equipment into sockets for different lines

——Contact an experienced technician familiar with wireless networking equipment or TV sets

In order to satisfy the limitations regarding electromagnetic emissions and to prevent interference with TV sets and/or wireless networking equipment nearby, the accessories provided with this unit should be used. This device should not be modified without the authorization or confirmation of the manufacturer.

2.0 CE Statement

This is to state that this 17" LCD monitor complies with the following compulsory regulations:

● **Safety**

This appliance complies with LVD-73/23/EEC Low Voltage Direction (EN60950-1:2001) requirements:

• Electrical shock protection

• Energy risk protection

• Fire hazard protection

• Hazardous electromagnetic emissions protection

• Protection against hazardous substances produced during normal operation or malfunction

• Mechanical and moving parts hazards

● **EMC**

This device complies with the 89/336/EEC requirements.

Electromagnetic interference generated by this device is less than that produced by radios or other long-distance communication equipment. During normal operation, interference effects should be at an acceptable level; this device also incorporates a sound internal anti-interference design. When correctly configured and maintained, it should operate normally in typical home or office environments.

EMI: Radio interference characteristics are in conformity with EN55022:1998 + A1: 2000 + A2: 2003 Class B *Limit Value & Test Method for Radio Interference Characteristics for Information Technology Equipment*

A) Electromagnetic emissions

B) Conducted emission

EN61000-3-2:2000; Class A Harmonic Current Emission

EN61000-3-3:1995+A1:2001 Voltage Fluctuation & Flicker

EMS: Anti-interference levels are in conformity with EN55024:1998 +A1:2001 + A2: 2003 class B

Limit Value & Test Method for Anti- Interference Level for Information Technology Equipment

IEC61000-4-2:1995+A1: 1998+A2:2000 Electrostatic (ESD)

IEC61000-4-3:2002+A1: 2002 Immunity to RF field strength

IEC61000-4-4:2004 Electrical fast transient

IEC61000-4-5:1995+A1 :2000 SURGE

IEC61000-4-6:2003 CS

IEC61000-4-8:1993+A1:2000 Magnetic-immunity

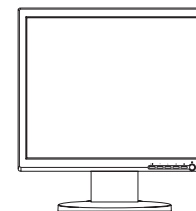IEC61000-4-11:2004 Voltage Dips/Interruptions

Safety Instructions

1. Please carefully read this manual before operating the device and keep it available for future reference.
2. To avoid the danger of the monitor falling and thereby possibly causing injury and/or serious damage to the monitor itself, do not place it on unstable cars or desks. Be careful to avoid placing any stress on the LCD screen during handling.
3. Do not place this monitor in areas that are wet or where water or other liquids may come in contact with it, such as bathrooms, kitchens, wet floors, near washing machines or by swimming pools.
4. Remove the power plug from the electrical socket before cleaning. No water-containing cleaning agent should be used to clean the screen, but only cleaning agents formulated specifically for cleaning LCD screens. Do not put any liquid cleaning agent directly on the screen, but put it on a soft cloth first and then gently apply the cloth to the screen.
5. In order to guarantee reliable operation and adequate heat dissipation, do not cover or block vent holes on the monitor. Do not put the monitor close to heat sources. Do not place the monitor on furniture such as a bookshelf, unless sufficient ventilation is available.
6. A 3-pin grounding plug is provided for this monitor. In order to guarantee normal operation and safety of this unit, this plug should be used with a matching grounded power socket.
7. Please follow all warnings and instructions that accompany the monitor.
8. Please pay special attention to power supply overloads, as electrical shock or fire may occur.
9. Do not place anything on the power cord. Do not hang the power cord over an area where people or objects may pass.
10. In case the monitor is not be used for an extended period, turn off power to avoid the possibility of short circuits caused by lightning.
11. In order to avoid electrical shock or fire risks, do not insert any object through any openings in the monitor's enclosure. Do not allow any liquid to come in contact with the monitor.
12. In case of any abnormal noise or odor caused by incorrect operation, turn off power immediately and contact a professional technician. Do not attempt to repair this monitor by yourself, as electrical shock may occur when opening the back cover or accessing internal components.
13. If any of the following conditions occurs, turn off power and contact a repair service provider:
    1) the power cord is damaged or worn;
    2) liquid has gotten into the monitor, or the monitor has experienced immersion or wetting;
    3) the monitor has fallen;
    4) the monitor's performance shows obvious changes;
    5) the monitor fails to work normally when correct procedures are followed. In that case, please make any adjustments in accordance with instructions supplied with the monitor; do not attempt any changes to established procedures, as further damage may occur, making successful repair of the monitor more difficult.
14. In case parts need to be replaced, you must use identical parts or those supplied by our certified manufacturers. Any other parts used without our authorization may result in electrical shock or fire risk.

3.0 Introduction

General Specifications

This high-quality 17" monitor is based on a liquid crystal display (LCD) with exceptional resolution and features multi-frequency intelligent scanning in the range of 30 to 80 KHz.

Caution: In order to maintain this monitor in optimal working condition, please carefully read this manual before use.

Monitor Characteristics

- 17" viewable-area screen
- 1280 x 1024 resolution, 300cd/m^2, 500:1 (subject to panel specification)
- Wide viewing angle (subject to panel specification)
- Low power consumption / VESA DPMS compliant
- Automatic power switching: AC 100~240V, 50~60Hz.
- VESA standard wall mount
- With 3mm protect enforce glass (T171 model only)
- Color temperature : Standard :9300K, 7500K, 6500K, 5400K, 4200K, Custom R,G ,B
- User image adjustments: Brightness, contrast, H./V. position, phase adjust, clock adjust, language, color, volume, reset, exit
- Choice of eight languages: English, France, German, Italian, Spanish, Sweden, Traditional Chinese and Simplified Chinese.

Package includes:

- 17" LCD monitor
- AC Power cord
- Instruction manual
- Warranty Card
- D-Sub 15 Cable
- DVI-D Cable (option)
- Audio cable (option)

Caution: Please keep the original packing materials including cartons for possible future use in shipping or moving the monitor.

Precautions

- Please turn off power before cleaning this monitor. Use a soft cloth with clean water and lightly wipe the LCD screen surface.
- This monitor operates at a high voltage and is potentially hazardous. Only qualified technicians are permitted to assemble or disassemble the device or access internal components.

4.0 Installation
Terminal Connection

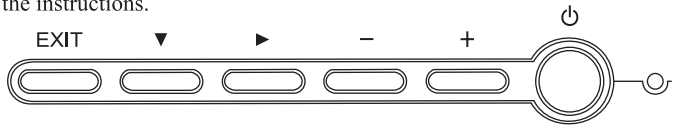| NO.	Terminal	Function
①	AC-In	AC power input 100~240V, 50/60HZ
②	Audio-In (option)	Audio input
③	DVI-In (option)	To PC DVI
④	D Sub 15 VGA -In	To PC D Sub 15 VGA

Pre-installation Check

Please check the label on the nameplate on the back cover first. Input voltage between 100V and 240V should be used with this monitor. Also please make sure this monitor and your main system (computer) is powered off before attaching any connectors.

5.0 Operation

• Keypad Operating

The LCD monitor has been preset at the factory with the Timing shown in Appendix to create optimal picture. Users are also able to adjust the picture to the desired brightness and sharpness by following the instructions.

Normal Key Define

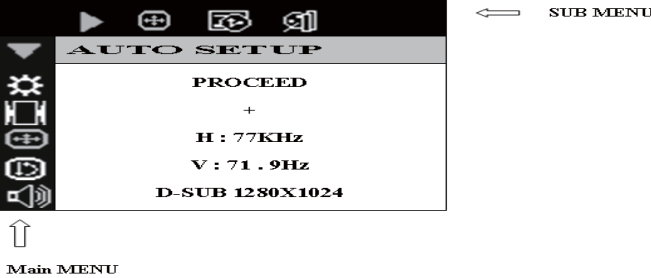| Buttons	Functions
EXIT Button	Exit the OSD (On Screen Display)
▼	Press to bring up the On Screen Display and select main menu items
►	Press to bring up the On Screen Display and select sub menu items
-	Adjust sub-setting bars i.e. CONTRAST, BRIGHTNESS, etc. to decrease setting values of the OSD
+	Adjust setting bars i.e. CONTRAST, BRIGHTNESS, etc. to increase setting values of the OSD
LED power status display	Green – Normal operation Amber – Power Management Dark – Power turn off
Power Switch	For turning ON/OFF the monitor

Hot Key Define

Buttons	Functions
EXIT Button	Auto setup
-	Volume Mute
+	Volume Adjust

• OSD Menu

OSD function allows the user to easily adjust the display to the desired quality.
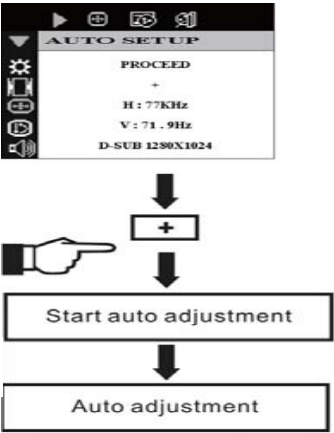
Structure of OSD

```
   ▶  ⊕  📷  🔲
 ▼  AUTO SETUP
☼         PROCEED
🎥             +
⊕         H : 77KHz
📺         V : 71 . 9Hz
🔊      D-SUB 1280X1024
```

⟸   SUB MENU

⇧

Main MENU

Operating Procedure
1.Power on the LCD monitor.
2.Press "▼" or "▶ " to pop up OSD menu.
3.Press "▼" to select main menu item.
4.Press "▶ " to select sub menu item.
5.Press "+" and "-" buttons to adjust.
6.Press the EXIT button when finish adjusting.

The Adjustment of Monitor's Screen Display
There are two ways to adjust the monitor's screen, i.e. auto adjustment and manual adjustment.

Auto adjustment

1. Power ON the LCD monitor and computer.
2. Select "AUTO SETUP" of OSD screens by pressing the"▼" button to "AUTO SETUP".
3. Press "+" button while displaying "AUTO SETUP" screen.
4. The auto adjustment is started. "AUTO SETUP" will be displayed during auto adjustment. It takes about 10 seconds to finish adjustment.

```
   ▶  ⊕  📷  🔲
 ▼  AUTO SETUP
☼         PROCEED
🎥             +
⊕         H : 77KHz
📺         V : 71 . 9Hz
🔊      D-SUB 1280X1024
```

↓

```
+
```

👉

↓

Start auto adjustment

↓

Auto adjustment

Manual adjustment
a) Power ON the LCD monitor and computer.
b) Adjust according to the aforementioned "Operating Procedure" and "Menu Table" to adjust the screen to your favorable screen display.

• OSD Icon Overview

Main Menu	Sub Menu	Function Name	Function
☼	☼	BRIGHTNESS	Adjusts the level of brightness and darkness
	◑	CONTRAST	Adjusts the RGB color pattern set of the contrast
	🚪	EXIT	Tune off OSD window
🎥	|||||	CLOCK	Adjusts the number of pixels from source video
	☰	CLOCK PHASE	Adjusts the phase relative to video H-sync signal
	⊡	H POSITION	Moves the screen horizontally (left/right)
	⊟	V POSITION	Moves the screen vertically (up/down)
⊕	⊕	AUTO SETUP	To auto adjust press the "+" button
	📷	OSD TIME OUT	Auto tune off OSD window timer
	🔲	A/D	Select input port is analog or digital
📺	📺	ALL RESET	Return to factory preset value
	⬜	OSD POSITION	Changes the OSD position
	🔲	DISPLAY MODE	"-" Represents the TEXT mode
			"+" Represents the GRAPHIC mode
	◇	LANGUAGE	Press "+" and "-" to choose OSD language
	🎨	COLOR	STANDARD: Factory preset color select (9300K, 7500K, 6500K(default), 5400K, 4200K)
			CUSTOM: Preferred color is adjusted
🔊	🔊	VOLUME	Adjust the volume of built-in speaker
	🔇	MUTE	Disable or enable sound

```
NO SIGNAL
   INPUT
```

1. If this warning appears, please check the connector. If it is bent or damaged, the signal cable may be affected.
2. If the monitor is in "sleep" mode to save power, please move the mouse or press any key to "wake" it and return to working mode.
3. Please check relevant diagrams, and make sure the monitor has been properly configured.
4. Please check the signal cable. If the type is incorrect, please use the cable that came with the monitor.

```
OUT OF RANGE
  H : 35KHz
  V : 86.8Hz
```

This warning indicates that the input signal frequency does not match those supported by this monitor. For this model, horizontal frequency must be in the range of 30 ~ 80 KHz and vertical frequency in the range of 55~75Hz. Please make sure your input signal is within these ranges.

6.0 Specification & Technical Data

Model No.	H170 /T171/ H171
Input Signal	Analog RGB 0.7Vp-p /75 ohm, TTL Sync,Digital RGB TMDS(option)
Scan Frequency	H: 30~80 KHz ,V: 55~75 Hz
	640x400,720x400,640x480,800x600, 832x624, 1024x768, 1152x864, 1152x870,1280x960, 1280x1024
RGB Mode OSD	Brightness, contrast, H./V. position, phase adjust, clock adjust, language, color, volume, reset, exit
	Color: Standard (9300K, 7500K, 6500K (default), 5400K, 4200K) Custom R,G ,B
	Language: English, France, German, Italian, Spanish,Sweden, Traditional Chinese ,Simplified Chinese
Audio (Option)	2W*2　Input: 0.5 Vrms
Power Input	AC 100~240V, 50~60 Hz　　Current: 1.2A
Power Consumption	42 W (max) with audio / Off Mode under 2W
Operation Environment	Temperature: 0~40℃
	Humidity: Less than 80%
Plug & Play	DDC　2B/2Bi
Power Management	VESA DPMS Compliant
Dimensions (W x H x D)	374 x 397 x 195mm (H171) / 374 x 397 x 198mm (T171 /H171)
Weight (w/ Stand)	3.6 kg (H170 /H171)　/ 4.4 kg (T171)
Terminal	AC power jack, D-Sub 15 VGA ,DVI-D (option),audio jack (option)
Control Button on front frame	Power, Exit/Auto, Increase (+), Decrease (─),Down(▼),Right(►)
Accessories	AC power cord, User manual, Warranty card, D-Sub 15 cable
	DVI-D cable (option), audio cable (option)

Export carton with monitor & Accessories	
Dimensions W x H x D	418 x 460 x 145mm
Weight (G.W.)	5.4 kg (H170 /H171) / 6.2kg (T171)

*** The above specifications may differ depending on the actual LCD panel utilized and are subject to change without prior notice.

7.0 Energy-saving Modes

When this product is operated, it complies with relevant power-saving measures stipulated by the Energy Star and VESA (Video Electronics Standards Association) standards. When the monitor is left unused, it can also automatically eliminate unnecessary power consumption. If the user intends to use this feature, the monitor must be connected to a computer with a power management system that complies with VESA standards. The energy-saving modes show as listed below (at this time, the computer must also be configured for these modes to take effect):

POWER SAVE

Off Mode

The monitor enters the Off mode after line signal or field signal or both the line signal and field signal are cut off. At this time, power consumption is less than 2W, the screen will turn dark, and the power indicator turns amber. In case there is any input from the keyboard or mouse, the monitor will re-enter the on mode immediately.

* The user can view the status of the power-saving modes through the LED on front panel.

Mode	Signal			Power	
	Line Signal	Field Signal	Video Signal	Power Indicator	Power Consumption
On	Y	Y	Y	Green	<42W
Off	N	Y	N	Amber	<2W
Off	Y	N	N	Amber	<2W
Off	N	N	N	Amber	<2W
Switch off	X	X	N	Dark	<2W

NOTE: It is better to remove the power cord from the electrical socket when the monitor is not in use for an extended period of time.

8.0 Supported Timing

Display Mode		Dot Clock (MHz)	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Sync Polarity (H/V)	Operating Mode (Analog /Digit)
VGA	640 x 350	25.18	31.47	70.08	+/-	Analog
VGA	640 x 480	25.18	31.47	59.94	-/-	Analog /Digit
VESA	640 x 480	31.50	37.86	72.81	-/-	Analog /Digit
VESA	640 x 480	31.50	37.50	75.00	-/-	Analog /Digit
VGA	720 x 400	28.32	31.47	70.09	-/+	Analog
VESA	800 x 600	36.00	35.16	56.25	+/+	Analog /Digit
SVGA	800 x 600	40.00	37.88	60.32	+/+	Analog /Digit
VESA	800 x 600	49.50	46.88	75.00	+/+	Analog /Digit
VESA	800 x 600	50.00	48.08	72.19	+/+	Analog /Digit
XGA	1024 x 768	65.00	48.36	60.00	-/-	Analog /Digit
VESA	1024 x 768	75.00	56.48	70.07	-/-	Analog /Digit
VESA	1024x 768	78.75	60.02	75.03	+/+	Analog /Digit
VESA	1280 x 960	108.0	60.00	60.0	+/+	Analog /Digit
VESA	1280x1024	108.0	63.98	60.02	+/+	Analog /Digit
VESA	1280x 1024	135.0	79.98	75.03	+/+	Analog /Digit
Macintosh	640 x 480	30.24	35.00	66.67	-/-	Analog /Digit
Macintosh	832 x 624	57.28	49.73	74.55	-/-	Analog /Digit
VESA	1152 x 864	108	67.50	75.0	+/+	Analog /Digit
Macintosh	1152 x 870	100	68.68	75.06	-/-	Analog /Digit
SUN	1152 x 900	94.5	61.8	66.0	-/-	Analog /Digit
	1280x1024	118.13	71.6	67.1	-/-	Analog /Digit
	1280 x 960	108	62.5	62.5	+/+	Analog /Digit

9.0 FAQ (Frequently Asked Question)

Question: What should I do if there is no picture?

- Make sure the cable is connected to the port on your PC's display card.
- Make sure the computer and screen are both turned on.
- Make sure the pins on the connector head of the cable are not bent or broken.

Question: What should I do if amber LED lights are on but there is no picture?

- Make sure the cable is connected to the port on your PC's display card.
- Check if the computer is in sleep mode or not.

Question: What should I do if green LED lights are on but there is no picture?

- Check if the output frequency of computer is outside the monitor's range. Refer to the material above on timing mode .
- Check and adjust BRIGHTNESS, CONTRAST, BACKGROUND BRIGHTNESS using the OSD menus.

Question: What should I do if RGB NO INPUT SIGNAL is displayed on the screen?

- Make sure the signal cable is connected to the port on your PC's display card.
- Check that your computer is operating normally.

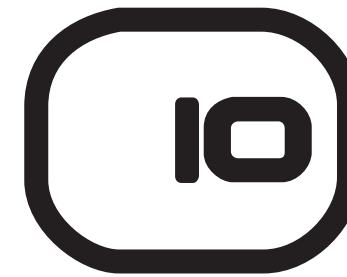Question: What should I do if SIGNAL OVER RANGE is displayed on the screen?

- Check your PC's display card specification, set vertical frequency to 55 ~ 75 Hz, and make sure resolution is less than 1280 x 1024. Refer to the material above on timing mode for further information.

Question: What should I do if the screen image is not clear?

- Confirm that the computer signal output is normal, and then check the AUTO ADJUST and Recall items in the OSD menu.
- Check the PHASE & Clock items.
- Set the screen image to 1280 x 1024 @ 75Hz.

Question: What should I do if the screen image size is incorrect?

- Check the Recall & AUTO ADJUST items of the OSD menu.
- Adjust horizontal and vertical position using the OSD menu.
- Make sure that your display card is compatible with the LCD specifications. (Please refer to relevant diagrams or manual and updated information as well).

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